

**ABSTRACT**SN 08  
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A method and apparatus for optimizing system parameters in a cellular communication network. Pilot strength measurement messages (PSMMs) that are received by bases stations of the network to be optimized are saved in a database. The database accumulates the raw data contained in the pilot strength measurement messages. After a sufficient amount of data has been collected, a report generator compiles a statistics report for each base station based on the raw PSMM data. The present invention then provides a method for applying the information in the report in order to optimize the network parameters of the cellular system. The neighbor list which is transmitted on the paging or traffic channel is revised in accordance with the compiled statistics. The antenna tilt of the base stations is adjusted in accordance with the compiled statistics.